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May 10, 2006

Ms. Joan Fleck
North Coast Regional Water Quality Control Board
5550 Skylane Boulevard, Suite A
Santa Rosa, California 95403

Subject: **First Quarter 2006 Groundwater Monitoring Report**
Rotten Robbie Service Station No. 40
2515 Guerneville Road, Santa Rosa, Sonoma County, California
Apex Project No ROB01.001

Dear Ms. Fleck:

Apex Envirotech, Inc. (Apex) has been authorized by Robinson Oil Corporation (Robinson Oil) to provide this report documenting the results of the first groundwater monitoring event performed on February 2, 2006. Groundwater monitoring results are provided in the attached figures and tables. Apex standard operating procedures, field data, and analytical results are provided as attachments.

This report is based in part on information obtained from Robinson Oil and is subject to modification as newly acquired information warrants.

BACKGROUND

November 1991 - On-Site Technologies, Inc. (OST) prepared a Remedial Investigation/Feasibility Study report recommending soil and groundwater remediation through groundwater extraction treatment.

December 15, 1995 - OST recommended a soil vapor extraction (SVE) and air sparge (AS) system be coupled with the groundwater extraction treatment as a more beneficial and cost effective remedial technology.

June 26, 1996 - OST proposed annual groundwater monitoring be conducted at the subject site, and groundwater extraction and treatment be supplemented with SVE/AS

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January 29, 1998 - The North Coast Regional Water Quality Control Board (NCRWQCB) issued a letter, requesting a feasibility study be prepared proposing alternative remediation technologies.

April 20, 1999 - ATC Associates, Inc. submitted a *Remedial Action/Feasibility Study and Corrective Action Plan*, proposing active dual phase extraction.

April 20, 2003 - Based on groundwater contamination at the subject site, the NCRWQCB proposed deferring implementation of a remediation system and continue groundwater monitoring activities.

July 24, 2004 - Apex submitted *Workplan for Installation of Ozone Sparging Remediation System*, proposing the installation of an ozone sparge system at the subject site, and other remedial alternatives.

December 3, 2004 - The NCRWQCB issued a letter recommending that the ozone sparge remediation system be permitted through the Santa Rosa Fire and Community Development Department. In addition, the NCRWQCB requested that well MW-11 from the Former Crossroads Beacon site be included in Apex's quarterly sampling schedule. The approved remediation system at the site will be installed concurrently with pending site demolition and reconstruction.

GENERAL SITE INFORMATION

Site name:	Rotten Robbie Service Station No. 40
Site address:	2515 Guerneville Road, Santa Rosa
Responsible party:	Robinson Oil Corporation
Current site use:	Fuel station
Current phase of project:	Groundwater monitoring
Tanks at site:	4 USTs
Number of wells:	7 Monitoring wells (4 onsite, 3 offsite)

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GROUNDWATER MONITORING SUMMARY

Gauging and sampling date: February 2, 2006
Wells gauged and sampled: MW-1 through MW-6 and MW-8
Wells gauged only: None
Wells sampled only: None
Groundwater flow direction: West-southwest
Groundwater gradient: 0.050 ft/ft
Floating liquid hydrocarbon: None
Laboratory: Kiff Analytical, Davis, California

Analysis:

Analysis	Abbreviation	Designation	USEPA Method No.
Total Petroleum Hydrocarbons as Gasoline	TPHg	Gas-Range Hydrocarbon	
Benzene			
Toluene			
Ethylbenzene			
Xylenes (Total)			
Methyl Butyl Alcohol	MTBE		
Di-Isopropyl Ether	DIPE		
Ethyl Tertiary Butyl Ether	ETBE		
Tertiary Amyl Methyl Ether	TAME		
Tertiary Butyl Alcohol	TBA		
1,2-Dichloroethane	1,2-DCA		
Ethylene Dibromide	EDB	Lead Scavengers	8260B

Modifications from Standard Monitoring Program:

None

CONCLUSIONS

Groundwater analytical results indicate detectable concentrations of TPHg and BTEX at wells MW-1 and MW-5. Concentrations of MTBE were detected in all wells. Well MW-1 also contained concentrations of DIPE and TBA and well MW-5 contained elevated concentrations of TBA.

Groundwater elevation increased an average of 2.21 feet compared with last quarter.

Isoconcentration maps depict the hydrocarbon and oxygenate plume.

RECOMMENDATIONS

Apex recommends continued quarterly groundwater monitoring. The next sampling event is scheduled for May 2006.

ADDITIONAL ACTIVITIES PERFORMED AT SITE

Installation of the approved ozone sparge system is currently pending the demolition and reconstruction of the site. Apex is also obtaining a permit for the City of Santa Rosa Fire Department to conduct limited excavation of soil beneath the existing dispenser islands.

ATTACHMENTS:

Figure 1: Site Vicinity Map

Figure 2: Site Plan Map

Figure 3: Groundwater Contour Map: February 2, 2006

Figure 4: TPHg in Groundwater Isoconcentration Map: February 2, 2006

Figure 5: Benzene in Groundwater Isoconcentration Map: February 2, 2006

Figure 6: MTBE in Groundwater Isoconcentration Map: February 2, 2006

Table 1: Well Construction Details

Table 2: Groundwater Elevation Data

Table 3: Groundwater Analytical Data

Table 4: Historical Groundwater Elevation Data

Table 5: Historical Groundwater Analytical Data

Appendix A: Apex Standard Operating Procedures

Appendix B: Field Data Sheet

Appendix C: Laboratory Analytical Report and Chain of Custody Form

REPORT DISTRIBUTION

A copy of this report was submitted to:

Regulatory Oversight: Mr. Jeff Tarter
City of Santa Rosa Fire Department
955 Sonoma Avenue
Santa Rosa, California 95404
(707) 543-3500

Ms. Joan Fleck
North Coast Regional Water Quality Control Board
5550 Skylane Boulevard, Suite A
Santa Rosa, California 95403
(707) 576-2220

Responsible Party: Mr. Thomas L. Robinson

cc: Mr. Brian Wingard

Mr. Ron Nicholson

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REMARKS/SIGNATURES

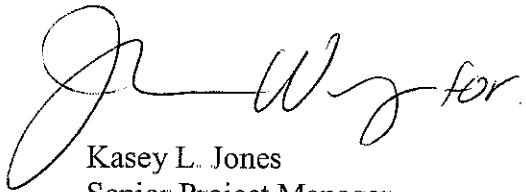
The information contained within this report reflects our professional opinions and was developed in accordance with currently available information, and accepted hydrogeologic and engineering practices.

The work described above was performed under the direct supervision of the professional geologist, registered with the State of California, whose signature appears below.

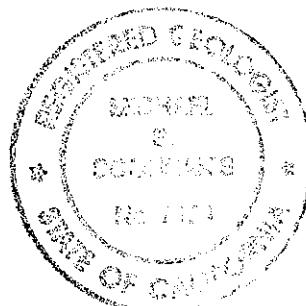
We appreciate the opportunity to provide Robinson Oil geologic, engineering and environmental consulting services, and trust this report meets your needs. If you have any questions or comments, please call us at (916) 851-0174.

Sincerely,

APEX ENVIROTECH, INC.

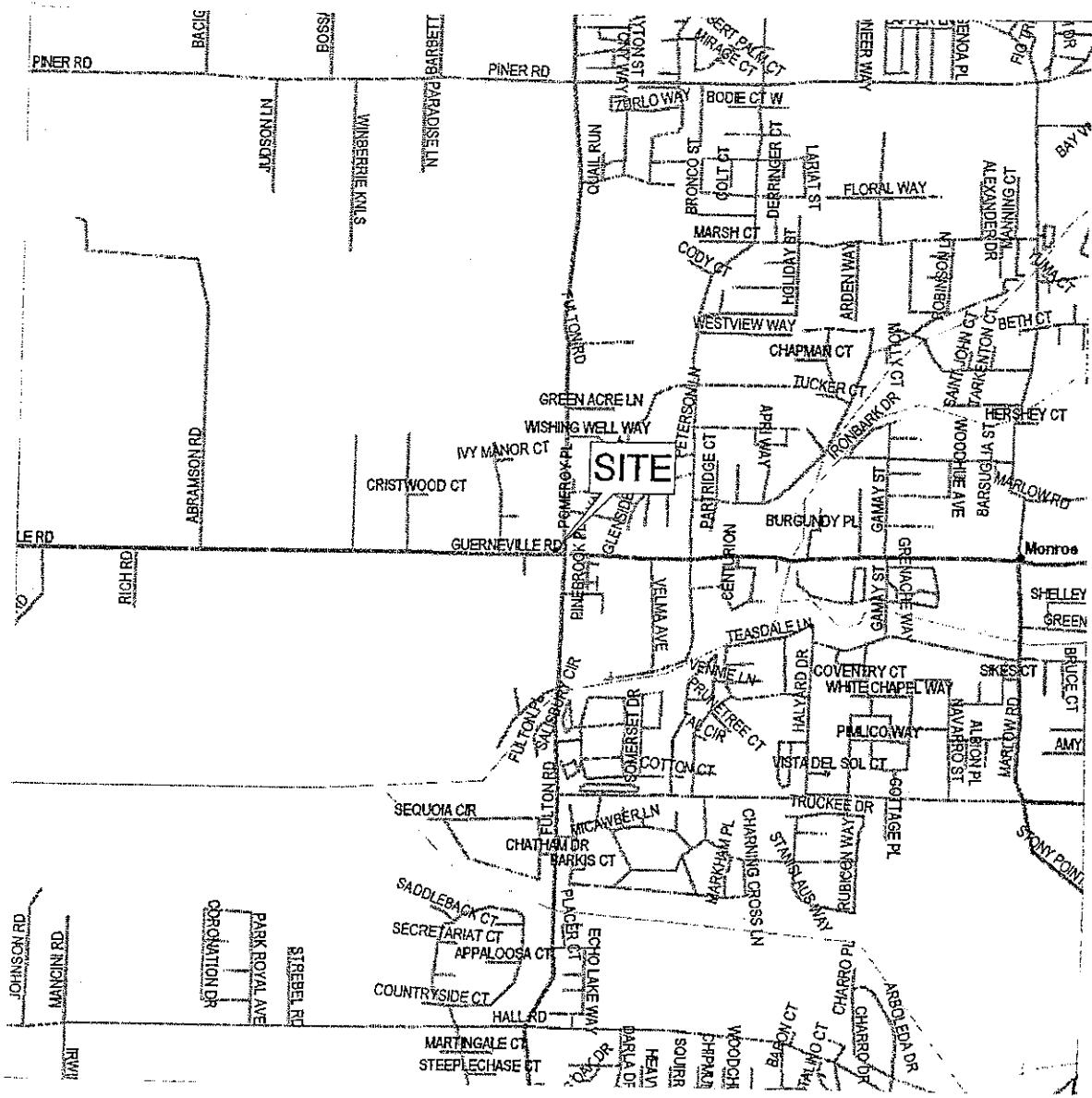


Kasey L. Jones
Senior Project Manager



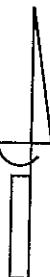
Michael S. Sgourakis P.G.
Senior Project Manager
CPG No. 7194

FIGURES



0 2,000 4,000

Approximate Scale
1 inch = 2,000 feet



N

DRAWN BY: J. Curry
DATE: 05/11/05

REVISIONS	

SITE VICINITY MAP

Rotten Robbies
2515 Guerneville Road
Santa Rosa, California

FIGURE

1

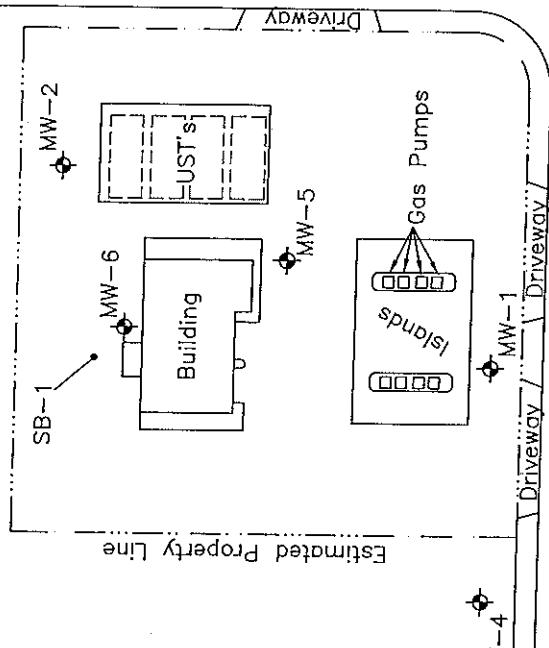
PROJECT NUMBER:

ROB01.001



MW-3

FULTON ROAD



GUERNEVILLE ROAD

LEGEND

- Soil Boring Location
- ✗ Destroyed Monitoring Well
- Groundwater Monitoring Well

MW-11
Median

MW-10

MW-9

MW-8

MW-7

MW-6

MW-5

MW-4

MW-3

MW-2

MW-1

MW-0

MW-11

MW-10

MW-9

MW-8

MW-7

MW-6

MW-5

MW-4

DRAWN BY:	J. Curry
DATE:	10/19/05
REVISIONS	

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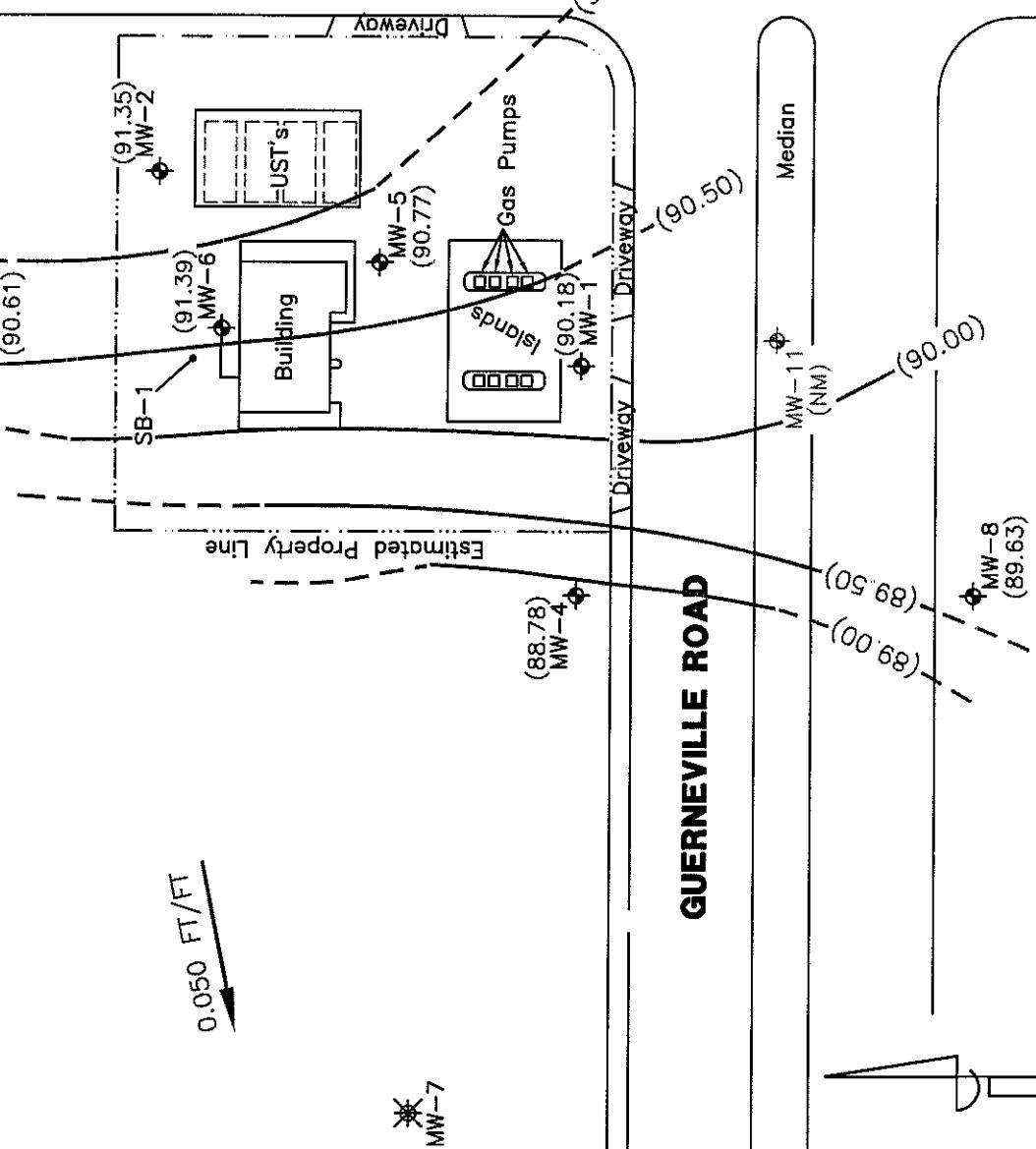
FIGURE
2

PROJECT NUMBER:
ROB01.001

SITE PLAN MAP

Rotten Robbies
2515 Guerneville Road
Santa Rosa, California

FULTON ROAD



GROUNDWATER CONTOUR MAP, FEBRUARY 2, 2006

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DATE:	5/3/06
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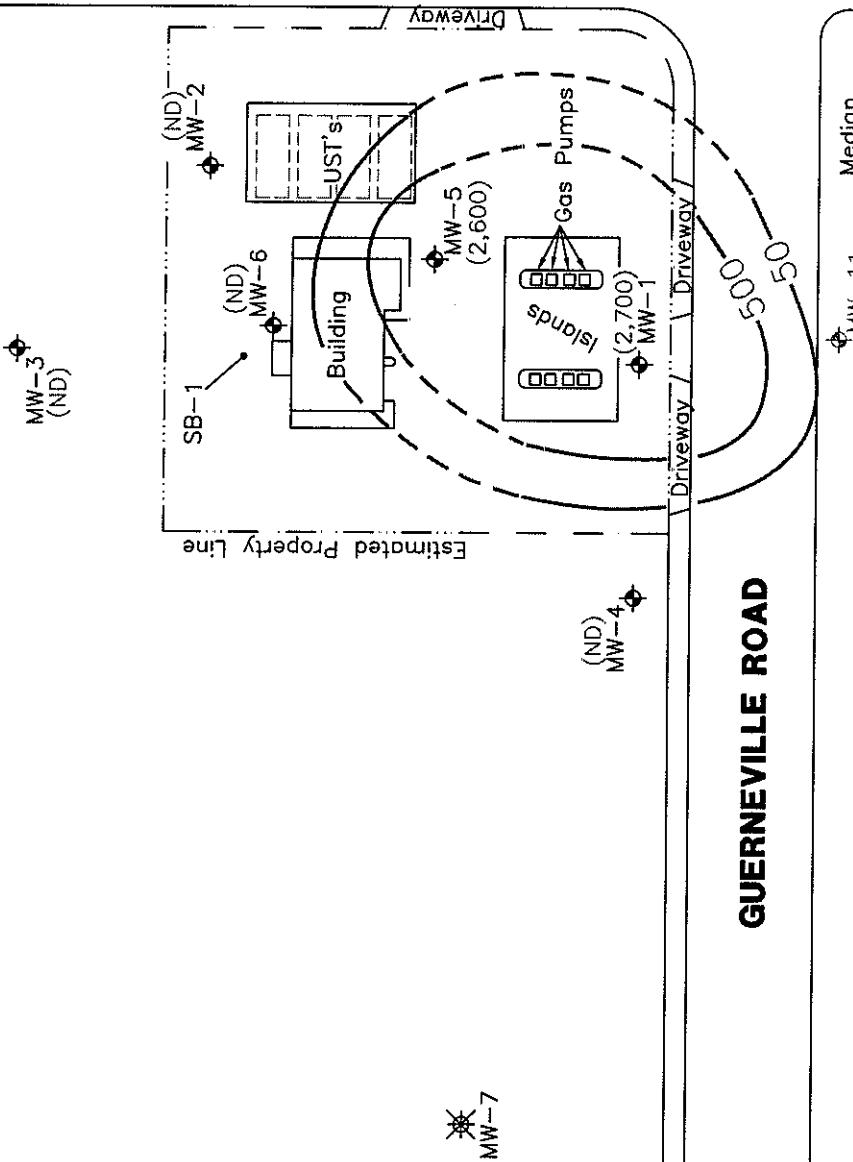


N
Approximate Scale
1 inch = 20 feet

FIGURE 3

PROJECT NUMBER:
ROB01.001

FULTON ROAD



LEGEND

- Soil Boring Location
- ✗ Destroyed Monitoring Well
- ◆ MW-11 Is Related To A Separate UST Release
- ◆ Concentration Of TPHg In Groundwater Measured In ug/L
- Line Of Equal Concentration Of TPHg In Groundwater Measured In ug/L; Dashed Where Inferred
- (ND) Not Detected
- (NS) Not Sampled

TPHg IN GROUNDWATER ISOCONCENTRATION MAP, FEBRUARY 2, 2006

FIGURE
4

Rotten Robbies
2515 Guerneville Road
Santa Rosa, California

PROJECT NUMBER:
ROB01.001

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DATE:	5/3/06
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0 20 40
Approximate Scale
1 inch = 20 feet

N

FIGURE
4

FULTON ROAD

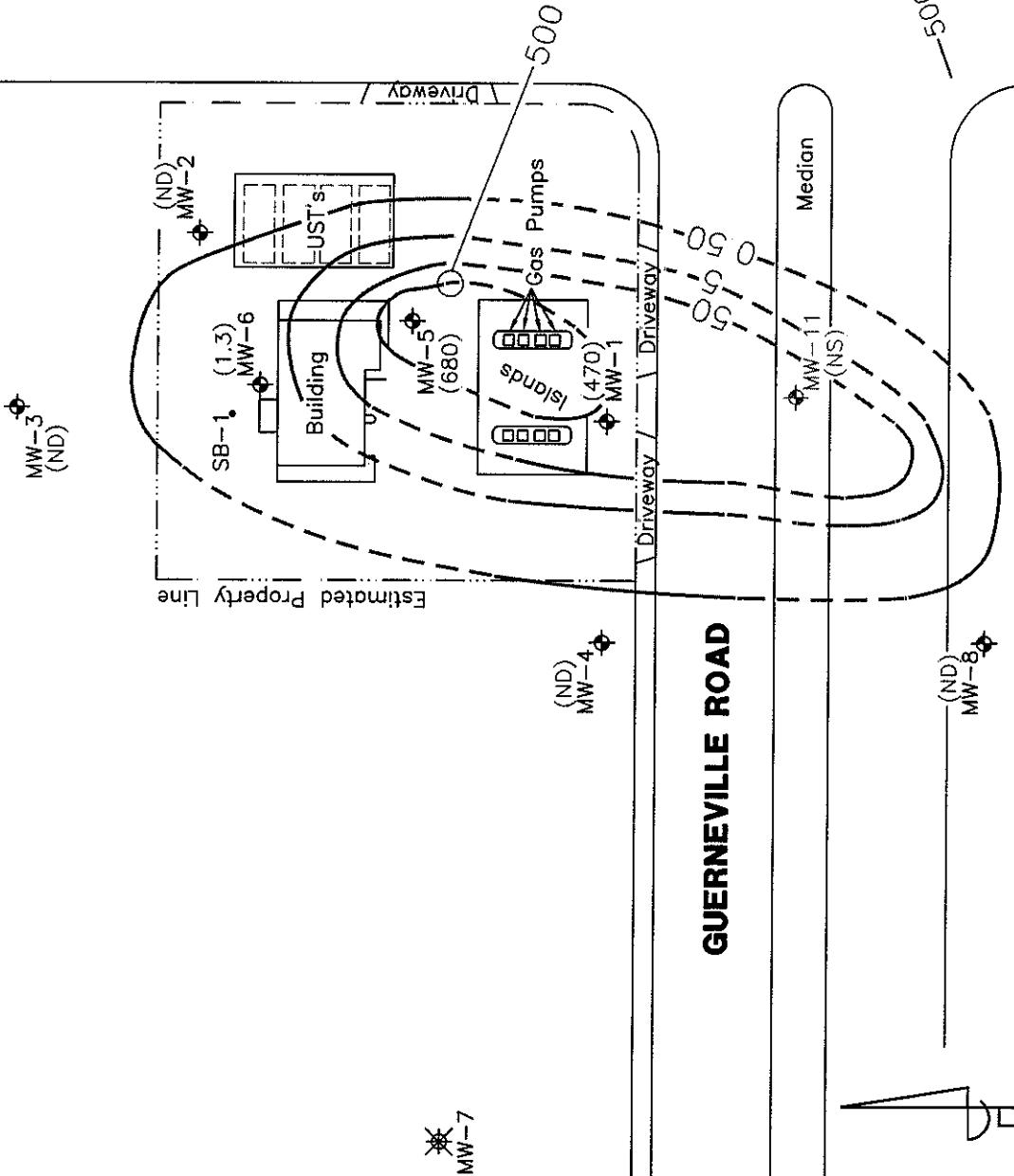


FIGURE 5
BENZENE IN GROUNDWATER ISOCONCENTRATION MAP, FEBRUARY 2, 2006

Rotten Robbies
2515 Guerneville Road
Santa Rosa, California

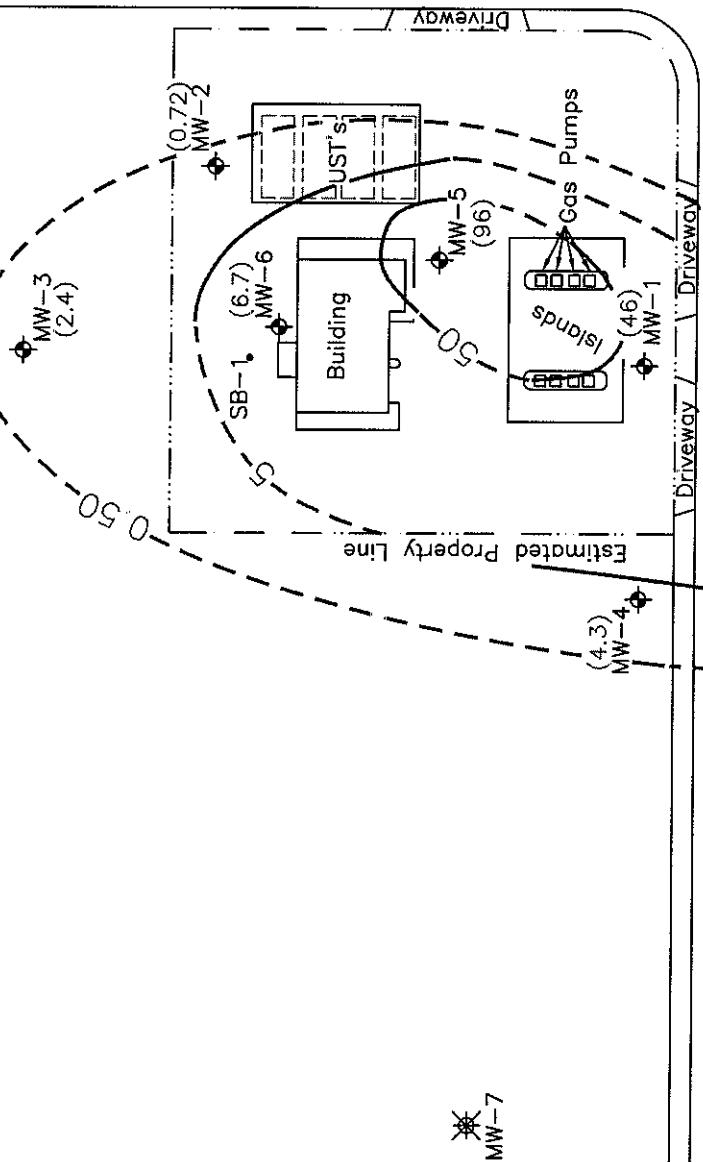
DRAWN BY:	J. Curry
DATE:	5/3/06
REVISIONS	



0 20 40
Approximate Scale
1 inch = 20 feet

PROJECT NUMBER:
ROB01.001

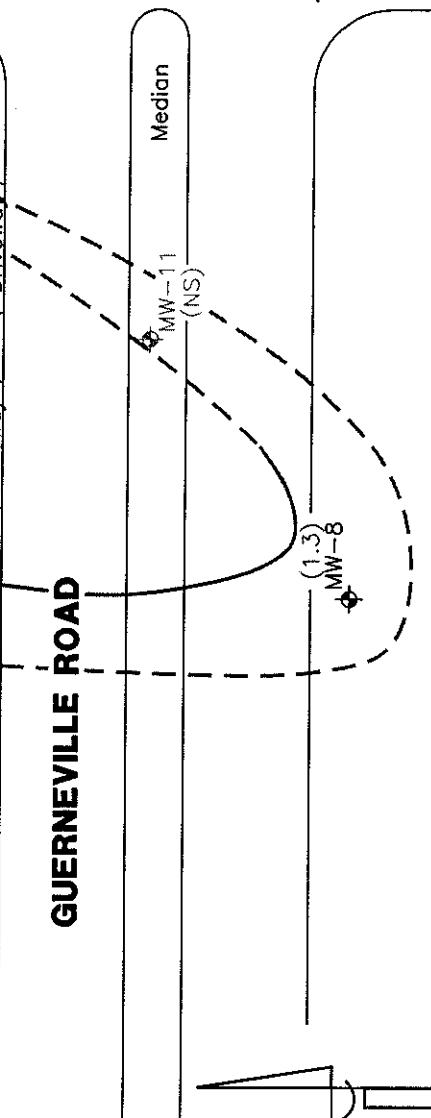
FULTON ROAD



LEGEND

- Soil Boring Location
- ✗ Destroyed Monitoring Well
- ❖ Groundwater Monitoring Well
- ◆ MW-11 Is Related To A Separate UST Release
- (96) Concentration Of MTBE In Groundwater Measured In ug/L
- Line Of Equal Concentration Of MTBE In Groundwater Measured In ug/L; Dashed Where Interred
- (ND) Not Detected
- (NS) Not Sampled

GUERNEVILLE ROAD



**MTBE IN GROUNDWATER ISOCONCENTRATION
MAP, FEBRUARY 2, 2006**

**FIGURE
6**

DRAWN BY:	J. Curry
DATE:	5/3/06
REVISIONS	



40
20
0
Approximate Scale
1 inch = 20 feet

Rotten Robbies
2515 Guerneville Road
Santa Rosa, California

PROJECT NUMBER:
ROB01.001

TABLES

TABLE 1
WELL CONSTRUCTION DETAILS
Rotten Robbie Service Station No 40
2515 Guerneville Road, Santa Rosa, California

Well Number	Well Installation Date	Elevation TOC (feet)	Casing Material	Total Depth (feet)	Well Depth (feet)	Casing Diameter (inches)	Screened Interval (feet)	Filter Pack Interval (feet)
MW-1	10/25/89	95.37	PVC	30	30	4	8 - 30	6 - 30
MW-2	10/25/89	95.81	PVC	20	20	4	7 - 20	5 - 20
MW-3	10/26/89	94.50	PVC	20	20	4	7 - 20	5 - 20
MW-4	6/12/90	94.50	PVC	18.3	18.3	4	6 - 18.2	5 - 18.2
MW-5	6/12/90	96.44	PVC	18.3	18.3	4	6 - 18.2	5 - 18.2
MW-6	6/12/90	96.69	PVC	18.3	18.3	4	6 - 18.2	5 - 18.2
MW-8	5/24/91	95.53	PVC	19	19	4	7 - 19	5 - 19
MW-11		96.28	PVC					

Notes:

--- = Information not available

TOC = Top of Casing

MW-11 is the responsibility of a separate consultant

TABLE 2
GROUNDWATER ELEVATION DATA
 Rotten Robbie Service Station #40
 2515 Guerneville Road, Santa Rosa, California
 (All measurements are in feet)

Monitoring Well	Date	Reference Elevation* (MSL)	Depth to Groundwater (Feet)	Groundwater Elevation Feet)	Groundwater Flow Direction
MW-1	2/2/06	95.37	5.19	90.18	WSW
MW-2	2/2/06	95.81	4.46	91.35	WSW
MW-3	2/2/06	94.50	3.89	90.61	WSW
MW-4	2/2/06	94.50	5.72	88.78	WSW
MW-5	2/2/06	96.44	5.67	90.77	WSW
MW-6	2/2/06	96.69	5.30	91.39	WSW
MW-7	10/6/95	Destroyed			
MW-8	2/2/06	93.53	3.90	89.63	WSW
MW-11	11/30/05	96.28	---	---	SSW

Note

--- -Measurement not taken

All measurement are in feet

MSL -Monitoring wells surveyed by Apex to msl

MW-11 is the responsibility of another consultant

TABLE 3
GROUNDWATER ANALYTICAL DATA
Rotten Robbie Service Station #40
2515 Guerneville Road, Santa Rosa, California

Sample ID	Date	TPH as		Benzene (ug/L)	Toluene (ug/L)	Ethyl benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)
		Gasoline (ug/L)	Diesel (ug/L)											
MW-1	2/2/06	2,700	---	470	3.0	13	19	46	2.4	<0.90	<0.90	730	<0.90	<0.90
MW-2	2/2/06	<50	---	<0.50	<0.50	<0.50	<0.50	0.72	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50
MW-3	2/2/06	<50	---	<0.50	<0.50	<0.50	<0.50	2.4	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50
MW-4	2/2/06	<50	---	<0.50	<0.50	<0.50	<0.50	4.3	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50
MW-5	2/2/06	2,600	---	680	25	55	50	96	<1.5	<1.5	<1.5	650	<1.5	<1.5
MW-6	2/2/06	<50	---	1.3	<0.50	<0.50	<0.50	6.7	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50
MW-7	10/6/95	Destroyed	---	<0.50	<0.50	<0.50	<0.50	1.3	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50
MW-8	2/2/06	<50	---	---	---	---	---	---	---	---	---	---	---	---
MW-11	2/2/06	---	---	---	---	---	---	---	---	---	---	---	---	---

NOTES:

TPH - Total Petroleum Hydrocarbons

MTBE - Methyl Tertiary Butyl Ether

DIPE - Di-isopropyl Ether

ETBE - Ethyl Tertiary Butyl Ether

TAME - Tertiarv AmvI Methyl Ether

TBA - Tertiarv Butanol

1,2-DCA - 1,2-Dichloroethane

EDB - Ethylene dibromide

ug/L - micrograms per Liter

--- - Not sampled

MW-11 is the responsibility of another consultant

TABLE 4
HISTORICAL GROUNDWATER ELEVATION DATA
Rotten Robbie Service Station #40
2515 Guerneville Road Santa Rosa California
(All measurements are in feet)

Monitoring Well	Date	Reference Elevation* (MSL)	Depth to Groundwater (Feet)	Groundwater Elevation (Feet)	Groundwater Flow Direction
MW-1	9/16/93	95 36	8 36	87 00	
	12/9/93		8 66	86 70	
	4/4/94		7 83	87 53	
	7/29/94		9 80	85 56	
	9/22/94		10 38	84 98	
	10/13/94		10 03	85 33	
	4/18/95		6 15	89 21	
	10/6/95		10 26	85 10	
	2/7/96		4 77	90 59	
	5/1/97		8 22	87 14	
	12/3/97		7 21	88 15	
	3/17/98		6 04	89 32	
	6/10/98		7 68	87 68	
	9/30/98		9 64	85 72	
	3/16/99		5 71	89 65	
	11/2/99	95 37	9 40	85 97	
	9/16/00		7 96	87 41	
	10/3/00		9 50	85 87	
	1/9/01		8 85	86 52	
	7/12/01		8 78	86 59	
	1/4/02		4 92	90 45	
	6/11/02		8 15	87 22	
	12/18/02		5 38	89 99	
	3/27/03		6 43	88 94	
	9/25/03		9 34	86 03	
	3/24/05		5 02	90 35	SW
	5/13/05		5 80	89 57	S
	9/16/05		8 58	86 79	S
	11/30/05		7 73	87 64	SSW
	2/2/06		5 19	90 18	WSW
MW-2	9/16/93	95 84	8 81	87 03	
	12/9/93		7 89	87 95	
	4/4/94		6 69	89 15	
	7/29/94		8 10	87 74	
	9/22/94		8 51	87 33	
	10/13/94		8 14	87 70	
	4/18/95		5 11	90 73	
	10/6/95		8 75	87 09	
	2/7/96		4 87	90 97	
	5/1/97		6 73	89 11	
	12/3/97		6 90	88 94	
	3/17/98		4 98	90 86	
	6/10/98		6 16	89 68	
	9/30/98		8 30	87 54	
	3/16/99		5 02	90 82	
	11/2/99	95 81	8 47	87 34	
	6/16/00		6 96	88 85	
	10/3/00		8 36	87 45	
	1/9/01		8 12	87 69	
	1/4/02		4 73	91 08	
	6/11/02		7 15	88 66	
	12/18/02		6 77	89 04	
	3/27/03		6 28	89 53	
	9/25/03		8 14	87 67	
	3/24/05		5 16	90 65	SW
	5/13/05		5 18	90 63	S
	9/16/05		7 45	88 36	S
	11/30/05		6 76	89 05	SSW
	2/2/06		4 46	91 35	WSW

TABLE 4
HISTORICAL GROUNDWATER ELEVATION DATA
 Rotten Robbie Service Station #40
 2515 Guerneville Road, Santa Rosa, California
 (All measurements are in feet)

Monitoring Well	Date	Reference Elevation* (MSL)	Depth to Groundwater (Feet)	Groundwater Elevation (Feet)	Groundwater Flow Direction
MW-3	9/16/93	95.80	8.06	87.74	
	12/9/93		6.48	89.32	
	4/4/94		6.23	89.57	
	7/29/94		6.54	89.26	
	9/22/94		7.01	88.79	
	10/13/94		6.57	89.23	
	4/18/95		3.81	91.99	
	10/6/95		7.70	88.10	
	2/7/96		3.77	92.03	
	5/1/97		5.49	90.31	
	12/3/97		5.37	90.43	
	3/17/98		4.40	91.40	
	6/10/98		4.98	90.82	
	9/30/98		7.11	88.69	
	3/16/99		4.57	91.23	
	11/2/99	95.79	7.56	88.23	
	6/16/00		6.73	89.06	
	10/3/00		7.06	88.73	
	1/9/01		7.74	88.05	
	1/4/02		4.31	91.48	
	6/11/02	94.50	7.22	87.28	
	12/18/02		5.62	88.88	
	3/27/03		8.16	86.34	
	9/25/03		5.93	88.57	
	3/24/05		4.12	90.38	SW
	5/13/05		4.45	90.05	S
	9/16/05		6.57	87.93	S
	11/30/05		5.79	88.71	SSW
	2/2/06		3.89	90.61	WSW
MW-4	9/16/93	94.02	9.30	84.72	
	12/9/93		7.39	86.63	
	4/4/94		6.81	87.21	
	7/29/94		8.59	85.43	
	9/22/94		9.27	84.75	
	10/13/94		---	---	
	4/18/95		5.32	88.70	
	10/6/95		---	---	
	2/7/96		3.99	90.03	
	5/1/97		7.14	86.88	
	12/3/97		6.19	87.83	
	3/17/98		5.27	88.75	
	6/10/98		6.81	87.21	
	9/30/98		8.61	85.41	
	3/16/99		5.06	88.96	
	11/2/99	94.50	8.19	86.31	
	6/16/00		7.05	87.45	
	10/3/00		8.41	86.09	
	1/9/01		7.92	86.58	
	1/4/02		4.05	90.45	
	6/11/02		7.22	87.28	
	12/18/02		4.38	90.12	
	3/27/03		5.57	88.93	
	9/25/03		8.48	86.02	
	3/24/05		---	---	SW
	5/13/05		5.07	89.43	S
	9/16/05		7.78	86.72	S
	11/30/05		7.04	87.46	SSW
	2/2/06		5.72	88.78	WSW

TABLE 4
HISTORICAL GROUNDWATER ELEVATION DATA
 Rotten Robbie Service Station #40
 2515 Guerneville Road, Santa Rosa, California
 (All measurements are in feet)

Monitoring Well	Date	Reference Elevation* (MSL)	Depth to Groundwater (Feet)	Groundwater Elevation (Feet)	Groundwater Flow Direction
MW-5	9/16/93	96 01	10.61	85.40	
	12/9/93		9.22	86.79	
	4/4/94		7.99	88.02	
	7/29/94		9.87	86.14	
	9/22/94		10.43	85.58	
	10/13/94		8.20	87.81	
	4/18/95		6.75	89.26	
	10/6/95		10.42	85.59	
	2/7/96		6.51	89.50	
	5/1/97		8.41	87.60	
	12/3/97		7.89	88.12	
	3/17/98		5.89	90.12	
	6/10/98		7.30	88.71	
	9/30/98		9.77	86.24	
	3/16/99		6.03	89.98	
	11/2/99	96 44	9.84	86.60	
	6/16/00		8.27	88.17	
	10/3/00		9.81	86.63	
	1/9/01		9.31	87.13	
	7/12/01		9.17	87.27	
	1/4/02		6.02	90.42	
	6/11/02		8.22	88.22	
	12/18/02		8.30	88.14	
	3/27/03		6.76	89.68	
	9/25/03		9.24	87.20	
	3/24/05		7.31	89.13	SW
	5/13/05		6.59	89.85	S
	9/16/05		8.90	87.54	S
	11/30/05		8.11	88.33	SSW
	2/2/06		5.67	90.77	WSW
MW-6	9/16/93	96 22	10.33	85.89	
	12/9/93		9.21	87.01	
	4/4/94		7.69	88.53	
	7/29/94		9.38	86.84	
	9/22/94		9.92	86.30	
	10/13/94		8.68	87.54	
	4/18/95		6.12	90.10	
	10/6/95		10.10	86.12	
	2/7/96		5.76	90.46	
	5/1/97		8.08	88.14	
	12/3/97		7.96	88.26	
	3/17/98		5.93	90.29	
	6/10/98		7.78	88.44	
	9/30/98		9.45	86.77	
	3/16/99		5.98	90.24	
	11/2/99	96 69	9.68	87.01	
	6/16/00		8.06	88.63	
	10/3/00		9.47	87.22	
	1/9/01		9.29	87.40	
	7/12/01		8.91	87.78	
	1/4/02		5.40	91.29	
	6/11/02		8.11	88.58	
	12/18/02		7.82	88.87	
	3/27/03		6.76	89.93	
	9/25/03		9.15	87.54	
	3/24/05		5.68	91.01	SW
	5/13/05		6.13	90.56	S
	9/16/05		8.66	88.03	S
	11/30/05		7.88	88.81	SSW
	2/2/06		5.30	91.39	WSW

TABLE 4
HISTORICAL GROUNDWATER ELEVATION DATA
 Rotten Robbie Service Station #40
 2515 Guerneville Road, Santa Rosa, California
 (All measurements are in feet)

Monitoring Well	Date	Reference Elevation* (MSL)	Depth to Groundwater (Feet)	Groundwater Elevation (Feet)	Groundwater Flow Direction
MW-7	9/16/93	93.44	8.59	84.85	
	12/9/93		6.79	86.65	
	4/4/94		6.07	87.37	
	7/29/94		8.33	85.11	
	9/22/94		8.69	84.75	
	10/13/94		---	---	
	4/19/95		4.71	88.73	
	10/6/95		Destroyed		
MW-8	9/16/93	93.07	8.83	84.24	
	12/9/93		7.27	85.80	
	4/4/94		5.94	87.13	
	7/29/94		8.30	84.77	
	9/22/94		8.93	84.14	
	10/13/94		---	---	
	4/18/95		---	---	
	10/6/95		---	---	
	2/7/96		---	---	
	3/17/98		4.24	88.83	
	6/10/98		7.88	85.19	
	9/30/98		8.25	84.82	
	3/16/99		4.26	88.81	
	11/2/99	93.53	7.67	85.86	
	6/16/00		6.49	87.04	
	10/3/00		7.88	85.65	
	1/9/01		6.90	86.63	
	1/4/02		3.07	90.46	
	6/11/02		6.58	86.95	
	12/18/02		3.59	89.94	
	3/27/03		4.99	88.54	
	9/25/03		8.01	85.52	
	3/24/05		4.25	89.28	SW
	5/13/05		5.11	88.42	S
	9/16/05		7.11	86.42	S
	11/30/05		6.27	87.26	SSW
	2/2/06		3.90	89.63	WSW
MW-11	3/24/05	96.28	---	---	
	5/13/05		6.83	89.45	S
	9/16/05		---	---	S
	11/30/05		---	---	SSW
	2/2/06		---	---	WSW

Note

--- -Measurement not taken

All measurement are in feet

MSL -Monitoring wells surveyed by Apex to msl

MW-11 is the responsibility of another consultant

TABLE 5
HISTORICAL GROUNDWATER ANALYTICAL DATA
Rotten Robbie Service Station #40
2515 Guerneville Road Santa Rosa California

Sample ID	Date	TPH as		Benzene	Toluene	Ethyl benzene	Total Xylenes	Five Fuel Oxygenates				1,2-DCA	EDB
		Gasoline (ug/L)	Diesel (ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	MTBE (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	(ug/L)
MW-4	3/9/93	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
	9/16/93	ND	--	ND	0.50	ND	ND	ND	--	--	--	--	--
	4/4/94	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
	10/13/94	--	--	--	--	--	--	--	--	--	--	--	--
	4/18/95	--	--	--	--	--	--	--	--	--	--	--	--
	10/6/95	--	--	--	--	--	--	--	--	--	--	--	--
	2/7/96	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
	12/3/97	<50	--	<5.0	<0.50	<0.50	<0.50	20	--	--	--	--	--
	5/1/97	<50	--	<5.0	<0.50	<0.50	<0.50	<5.0	--	--	--	--	--
	3/17/98	75	--	8.5	<0.50	<0.50	<0.50	480	--	--	--	--	--
	9/30/98	<50	--	<0.50	<0.50	<0.50	<0.50	14	--	--	--	--	--
	3/16/99	140	--	25	7.0	4.8	11	14	--	--	--	--	--
	11/2/99	<50	--	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	--
	1/9/01	<50	--	<0.50	<0.50	<0.50	<0.50	5.4	--	--	--	--	--
	1/4/02	<50	--	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	--
	6/11/02	<50	--	5.5	<0.50	<0.50	<1.0	14	--	--	--	--	--
	12/18/02	<50	--	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	--	--	--
	3/27/03	<50	--	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	--	--	--
	9/25/03	<50	--	<0.50	<0.50	<0.50	<1.0	5.2	--	--	--	--	--
	3/24/05	--	--	--	--	--	--	--	--	--	--	--	--
	5/13/05	<60	--	<0.50	<0.50	<0.50	<0.50	0.90	<0.50	<0.50	<0.50	<0.50	<0.50
	9/16/05	<50	--	<0.50	<0.50	<0.50	<0.50	3.0	<0.50	<0.50	<0.50	<0.50	<0.50
	11/30/05	<50	--	<0.50	<0.50	<0.50	<0.50	5.1	<0.50	<0.50	<0.50	<0.50	<0.50
	2/2/06	<50	--	<0.50	<0.50	<0.50	<0.50	4.3	<0.50	<0.50	<0.50	<0.50	<0.50
MW-5	6/13/90	4,400	ND	420	490	110	550	--	--	--	--	--	--
	9/18/90	10,100	ND	2,600	450	260	800	--	--	--	--	--	--
	12/20/90	3,200	ND	460	130	51	180	--	--	--	--	--	--
	3/20/91	8,800	ND	1,700	670	170	870	--	--	--	--	--	--
	6/19/91	22,000	370	4,000	1,900	460	2,500	--	--	--	--	--	--
	9/26/91	21,000	ND	6,400	2,300	780	3,400	--	--	--	--	--	--
	12/30/91	8,700	--	2,900	740	260	960	--	--	--	--	--	--
	3/18/92	4,100	--	1,100	300	120	480	--	--	--	--	--	--
	6/17/92	3,000	--	1,800	410	280	610	--	--	--	--	--	--
	9/24/92	5,400	--	1,800	410	240	600	--	--	--	--	--	--
	12/10/92	6,600	--	1,700	330	170	580	--	--	--	--	--	--
	3/9/93	5,200	--	1,300	210	120	530	--	--	--	--	--	--
	9/16/93	7,600	--	3,400	380	350	1,100	--	--	--	--	--	--
	4/4/94	5,100	--	2,000	110	210	510	--	--	--	--	--	--
	10/13/94	5,900	--	1,600	65	150	420	--	--	--	--	--	--
	4/18/95	26,000	--	3,500	140	410	940	--	--	--	--	--	--
	10/6/95	18,000	--	2,800	57	230	540	--	--	--	--	--	--
	2/7/96	7,100	--	2,300	ND	160	230	82	--	--	--	--	--
	5/1/97	12,000	--	2,300	60	290	300	260	--	--	--	--	--
	12/3/97	4,700	--	3,100	24	130	200	440	--	--	--	--	--
	3/17/98	9,300	--	3,100	64	190	280	490	--	--	--	--	--
	6/10/98	11,000	--	3,700	160	260	380	390	--	--	--	--	--
	9/30/98	9,800	--	2,700	75	240	280	470	--	--	--	--	--
	3/16/99	9,600	--	3,500	59	300	300	490	--	--	--	--	--
	11/2/99	7,300	--	2,600	25	140	130	440	--	--	--	--	--
	6/16/00	14,000	--	5,900	110	420	460	830	--	--	--	--	--
	10/30/00	5,000	--	1,500	20	76	62	520	--	--	--	--	--
	1/9/01	4,600	--	1,400	16	110	120	580	--	--	--	--	--
	7/12/01	8,700	--	3,600	66	280	300	650	--	--	--	--	--
	1/4/02	7,100	--	2,200	<50	170	140	650	--	--	--	--	--
	6/11/02	14,000	--	5,400	160	430	480	740	--	--	--	--	--
	12/18/02	4,100	--	1,700	<12.5	<12.5	<25	660	--	--	--	--	--
	3/27/03	7,000	--	3,100	170	<50	120	980	--	--	--	--	--
	9/25/03	8,300	--	5,000	40	290	84	640	--	--	--	--	--
	3/24/05	5,800	--	1,100	64	100	110	160	<2.5	<2.5	<2.5	750	<2.5
	5/13/05	9,300	--	1,800	400	160	600	170	<2.5	<2.5	<2.5	710	<2.5
	9/16/05	6,600	--	1,100	21	90	89	170	<2.5	<2.5	<2.5	730	<2.5
	11/30/05	3,000	--	800	5.5	57	20	120	<1.5	<1.5	<1.5	680	<1.5
	2/2/06	2,600	--	680	25	55	60	96	<1.5	<1.5	<1.5	650	<1.5

APPENDIX A

APEX STANDARD OPERATING PROCEDURES

APEX ENVIROTECH, INC.
STANDARD OPERATING PROCEDURES
Quarterly Monitoring Reports

SOP – 4
SAMPLE IDENTIFICATION AND CHAIN-OF-CUSTODY PROCEDURES

Sample identification and chain-of-custody procedures ensure sample integrity as well as document sample possession from the time of collection to ultimate disposal. Each sample container submitted for analysis is labeled to identify the job number, date, time of sample collection, a sample number unique to the sample, any in-field measurements made, other pertinent field observations also recorded on the field excavation or boring logs.

Chain-of-custody forms are used to record possession of the sample from time of collection to arrival at the laboratory. During shipment, the person with custody of the samples will relinquish them to the next person by signing the chain-of-custody form(s) and noting the date and time. The sample control officer at the laboratory will verify sample integrity, correct preservation, confirm collection in the proper container(s), and ensure adequate volume for analysis.

If these conditions are met, the samples will be assigned unique laboratory log numbers for identification throughout analysis and reporting. The log numbers will be recorded on the chain-of-custody forms and in the legally-required log book maintained in the laboratory. The sample description, date received, client's name, and any other relevant information will also be recorded.

SOP – 5
LABORATORY ANALYTICAL QUALITY ASSURANCE AND CONTROL

In addition to routine instrument calibration, replicates, spikes, blanks, spiked blanks, and certified reference materials are routinely analyzed at method-specific frequencies to monitor precision and bias. Additional components of the laboratory Quality Assurance/Quality Control program include:

1. Participation in state and federal laboratory accreditation/certification programs;
2. Participation in both U.S. EPA Performance Evaluation studies (WS and WP studies) and inter-laboratory performance evaluation programs;
3. Standard operating procedures describing routine and periodic instrument maintenance;
4. "out-of-Control"/Corrective Action documentation procedures; and,
5. Multi-level review of raw data and client reports

SOP – 7
GROUNDWATER PURGING AND SAMPLING

Prior to water sampling, each well is purged by evacuating a minimum of three wetted well-casing volumes of groundwater. When required, purging will continue until either the discharge water temperature, conductivity, or pH stabilize, a maximum of ten wetted-casing volumes of groundwater have been recovered, or the well is bailed dry.

When practical, the groundwater sample should be collected when the water level in the well recovers to at least 80 percent of its static level.

The sampling equipment consists of either a "Teflon" bailer, PVC bailer, or stainless steel bladder pump with a "Teflon" bladder. If the sampling system is dedicated to the well, then the bailer is usually "Teflon," but the bladder pump is PVC with a polypropylene bladder. In general and depending on the intended laboratory analysis, 40-milliliter glass, volatile organic analysis (VOA) vials, with "Teflon" septa, are used as sample containers.

SOP – 12
MEASURING LIQUID LEVELS USING WATER LEVEL METER OR INTERFACE PROBE

Field equipment used for liquid-level gauging typically includes the measuring instrument (water-level meter or interface probe and product bailer(s)). The field kit also includes cleaning supplies (buckets, solution, spray bottles, and deionized water) to be used in cleaning the equipment between wells.

Prior to measurements, the instrument tip is lowered into the well until it touches bottom. Using the previously established top-of-casing or top-of-box (i.e., wellhead vault) point, the probe cord (or halyard) is marked and a measuring tape (graduated in hundredths of a foot) is used to determine the distance between the probe end and the marking on the cord. This measurement is then recorded on the liquid-level data sheet as the "Measured Total Depth" of the well.

When necessary in using the interface probe to measure liquid levels, the probe is first electrically grounded to either the metal stove pipe or another metal object nearby. When no ground is available, reproducible measurements can be obtained by clipping the ground lead to the handle of the interface probe case.

The probe tip is then lowered into the well and submerged in the groundwater. An oscillating (beeping) tone indicates the probe is in water. The probe is slowly raised until either the oscillating tone ceases or becomes a steady tone. In either case, this is the depth-to-water (DTW) indication of the DTW measurement is made accordingly. The steady tone indicates floating liquid hydrocarbons (FLH). In this case, the depth-to-product (DTP) indication and the DTP measurement is made accordingly.

The process of lowering and raising the probe must be repeated several times to ensure accurate measurements. The DTW and DTP measurements are recorded on the liquid-level data sheet. When FLH are indicated by the probe's response, a product bailer is lowered partially through the FLH water interface to confirm the FLH thickness, particularly in cases where the FLH layer is quite thin. This measurement is recorded on the data sheet as "FLH thickness."

In order to avoid cross-contamination of wells during the liquid-level measurement process, wells are measured in the order of "clean" to "dirty" (where such information is available). In addition, all measurement equipment is cleaned with solution and thoroughly rinsed with deionized water before use, between measurements in respective wells, and at the completion of the day's use.

APPENDIX B

FIELD DATA SHEETS



Monitoring Data

Project: Rotten Rabbies #40

Project Number: ROBO(-001)

Date: 2/2/06

Recorded By: KCM

WELL	TIME	TEMP (deg C)	pH	COND. (μ S/cm)	DISSOLVED OXYGEN	TOTAL VOLUME REMOVED	COMMENTS/OBSERVATIONS
------	------	-----------------	----	------------------------	---------------------	----------------------------	-----------------------

MW-2	0900	18.3	6.8	298		10	1.5 ppm (all wells)
	0906	19.4	6.7	502		20	
↓	0913	19.5	6.7	299		30	Sampled @ 315
MW-3	0923	18.1	6.9	379		10	
	0929	17.7	6.9	281		20	
↓	0936	18.4	6.9	473		30	Sampled @ 325
MW-8	0945	18.2	6.8	485		10	
	0949	18.3	6.7	492		20	
↓	0955	18.4	6.7	203		30	Sampled @ 340
MW-4	1011	17.7	6.6	826		8	
	1017	17.7	6.6	729		16	
↓	1022	18.1	6.6	693		24	Sampled @ 1350



Monitoring Data

Project:

Project Number: ROB01-001

Date: 2/20/06

Recorded By: RCM

WELL	TIME,	TEMP (deg \ominus)	pH	COND. (μ S/cm)	DISSOLVED OXYGEN	TOTAL	COMMENTS/OBSERVATIONS
						VOLUME REMOVED	
MW-6	1050	17.3	6.8 6.8	499	8		
	1056	16.9	6.3	135	16		
V	1101	16.8	6.4	178	24		
							samp lot @ 1400
MW-1	1118	19.8	6.5	496	15		
	1124	20.1	6.6	873	30		
V	1138	20.5	6.6	875	45		
							samp lot @ 1410
MW-5	1145	18.9	6.5	544	8		
	1151	19.2	6.4	183	16		
V	1156	19.5	6.5	422	24		
							samp lot @ 1420

APPENDIX C

**LABORATORY ANALYTICAL REPORT AND
CHAIN-OF-CUSTODY FORM**



2795 2nd Street Suite 300
Davis, CA 95616
Lab: 530.297.4808
Fax: 530.297.4808

Project Contact (Hardcopy or PDF To): Kelli Felker

Company / Address:
Apex Envirotech, Inc.
Pyrites Wy., Gold River, CA 95670

California EDF Report? Yes No

Chain-of-Custody Record and Analysis Request

Recommended but not mandatory to complete this section:
Sampling Company Log Code:
APEF
Global ID: T0609700545
EDF Deliverable To (Email Address): cmartin@apexenvirotech.com

Project Name: Rotten Robbie Station #40
Project Address: 2515 Guerneville Road, Santa Rosa

Sampling Signature: *D. Martin*

Sample Designation	Date	Time	Container	Preservative	Matrix	
					SOIL	WATER
MW-1	22 Oct	14:00	X	X	None	HNO ₃
MW-2		13:15	X	X	ICE	HCl
MW-3		13:25	X	X	AMBER	POLY
MW-4		13:50	X	X	SLEEVE	40 ml VOA
MW-5		14:00	X	X		
MW-6		14:00	X	X		
MW-8		13:40	X	X		

Lab No. _____

Page 1 of 1

Analysis Request		TAT
Lead (7421/2392)	TOTAL	12hr <input type="radio"/>
Volatile Halocarbons (EPA 8260B)	WET	24hr <input type="radio"/>
EPA 8260B (Full List)		48hr <input type="radio"/>
Lead Soav. (1,2 DCA & 1,2 EDB - 8260B)		72hr <input type="radio"/>
7 Oxygenates (8260B)		1wk <input type="radio"/>
5 Oxygenates (8260B)		2wk <input type="radio"/>
TPH Gas/BTEX/MTBE (8260B)		
5 Oxygenates/TPH Gas (8260B)		
7 Oxygenates/TPH Gas (8260B)		
TPH 2s Motor Oil (M8015)		
TPH 2s Diesel (M8015)		
BTEX/TPH Gas/MTBE (8021B/M8015)		
BTEX (8021B)		

Remarks:

Date Time Received by:

2024-10-16 16:15

Date Time Received by:

2024-10-16 16:15

Date Time Received by:

2024-10-16 16:15

John Gary Kolb, Lab Tech

Relinquished by:

John Gary Kolb, Lab Tech

Relinquished by:

John Gary Kolb, Lab Tech

Relinquished by:

John Gary Kolb, Lab Tech



Report Number : 48209

Date : 2/8/2006

Kasey Jones
Apex Envirotech Inc.
11244 Pyrites Way
Gold River, CA 95670-4481

Subject : 7 Water Samples
Project Name : Rotten Robbie Station #40
Project Number : ROB01 001-QM

Dear Mr. Jones,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800

Sincerely,

A handwritten signature in black ink. The signature appears to read "Joel Kiff". Below the signature, the name "Joel Kiff" is printed in a smaller, clean font.



Report Number : 48209

Date : 2/8/2006

Subject : 7 Water Samples
Project Name : Rotten Robbie Station #40
Project Number : ROB01 001-QM

Case Narrative

Matrix Spike/Matrix Spike Duplicate Results associated with sample MW-2 for the analyte Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.

Approved By:

Joe Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800



Report Number : 48209

Date : 2/8/2006

Project Name : Rotten Robbie Station #40

Project Number : ROB01.001-QM

Sample : MW-1

Matrix : Water

Lab Number : 48209-01

Sample Date : 2/2/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	470	0.90	ug/L	EPA 8260B	2/4/2006
Toluene	3.0	0.90	ug/L	EPA 8260B	2/4/2006
Ethylbenzene	13	0.90	ug/L	EPA 8260B	2/4/2006
Total Xylenes	19	0.90	ug/L	EPA 8260B	2/4/2006
Methyl-t-butyl ether (MTBE)	46	0.90	ug/L	EPA 8260B	2/4/2006
Diisopropyl ether (DIPE)	2.4	0.90	ug/L	EPA 8260B	2/4/2006
Ethyl-t-butyl ether (ETBE)	< 0.90	0.90	ug/L	EPA 8260B	2/4/2006
Tert-amyl methyl ether (TAME)	< 0.90	0.90	ug/L	EPA 8260B	2/4/2006
Tert-Butanol	730	5.0	ug/L	EPA 8260B	2/4/2006
TPH as Gasoline	2700	90	ug/L	EPA 8260B	2/4/2006
1,2-Dichloroethane	< 0.90	0.90	ug/L	EPA 8260B	2/4/2006
1,2-Dibromoethane	< 0.90	0.90	ug/L	EPA 8260B	2/4/2006
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	2/4/2006
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	2/4/2006
Dibromofluoromethane (Surr)	106		% Recovery	EPA 8260B	2/4/2006
1,2-Dichloroethane-d4 (Surr)	99.0		% Recovery	EPA 8260B	2/4/2006

Approved By: Joel Kiff



Report Number : 48209

Date : 2/8/2006

Project Name : Rotten Robbie Station #40

Project Number : ROB01.001-QM

Sample : MW-2

Matrix : Water

Lab Number : 48209-02

Sample Date : 2/2/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Methyl-t-butyl ether (MTBE)	0.72	0.50	ug/L	EPA 8260B	2/6/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	2/6/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	2/6/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	2/6/2006
4-Bromofluorobenzene (Surr)	99.3		% Recovery	EPA 8260B	2/6/2006
Dibromofluoromethane (Surr)	110		% Recovery	EPA 8260B	2/6/2006
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	2/6/2006

Approved By: Joel Kiff



Report Number : 48209

Date : 2/8/2006

Project Name : Rotten Robbie Station #40

Project Number : ROB01.001-QM

Sample : MW-3

Matrix : Water

Lab Number : 48209-03

Sample Date : 2/2/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Methyl-t-butyl ether (MTBE)	2.4	0.50	ug/L	EPA 8260B	2/6/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	2/6/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	2/6/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	2/6/2006
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	2/6/2006
Dibromofluoromethane (Surr)	110		% Recovery	EPA 8260B	2/6/2006
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	2/6/2006

Approved By: Joel Kiff



Report Number : 48209

Date : 2/8/2006

Project Name : Rotten Robbie Station #40

Project Number : ROB01.001-QM

Sample : MW-4

Matrix : Water

Lab Number : 48209-04

Sample Date : 2/2/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Methyl-t-butyl ether (MTBE)	4.3	0.50	ug/L	EPA 8260B	2/6/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	2/6/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	2/6/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Toluene - d8 (Surr)	94.5		% Recovery	EPA 8260B	2/6/2006
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	2/6/2006
Dibromofluoromethane (Surr)	100		% Recovery	EPA 8260B	2/6/2006
1,2-Dichloroethane-d4 (Surr)	98.0		% Recovery	EPA 8260B	2/6/2006

Approved By: Joel Kiff



Report Number : 48209

Date : 2/8/2006

Project Name : Rotten Robbie Station #40

Project Number : ROB01.001-QM

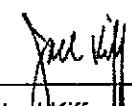
Sample : MW-5

Matrix : Water

Lab Number : 48209-05

Sample Date : 2/2/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	680	1.5	ug/L	EPA 8260B	2/4/2006
Toluene	25	1.5	ug/L	EPA 8260B	2/4/2006
Ethylbenzene	55	1.5	ug/L	EPA 8260B	2/4/2006
Total Xylenes	50	1.5	ug/L	EPA 8260B	2/4/2006
Methyl-t-butyl ether (MTBE)	96	1.5	ug/L	EPA 8260B	2/4/2006
Diisopropyl ether (DIPE)	< 1.5	1.5	ug/L	EPA 8260B	2/4/2006
Ethyl-t-butyl ether (ETBE)	< 1.5	1.5	ug/L	EPA 8260B	2/4/2006
Tert-amyl methyl ether (TAME)	< 1.5	1.5	ug/L	EPA 8260B	2/4/2006
Tert-Butanol	650	7.0	ug/L	EPA 8260B	2/4/2006
TPH as Gasoline	2600	150	ug/L	EPA 8260B	2/4/2006
1,2-Dichloroethane	< 1.5	1.5	ug/L	EPA 8260B	2/4/2006
1,2-Dibromoethane	< 1.5	1.5	ug/L	EPA 8260B	2/4/2006
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	2/4/2006
4-Bromofluorobenzene (Surr)	98.6		% Recovery	EPA 8260B	2/4/2006
Dibromofluoromethane (Surr)	96.9		% Recovery	EPA 8260B	2/4/2006
1,2-Dichloroethane-d4 (Surr)	96.4		% Recovery	EPA 8260B	2/4/2006

Approved By:  Joel Kiff



Report Number : 48209

Date : 2/8/2006

Project Name : Rotten Robbie Station #40

Project Number : ROB01.001-QM

Sample : MW-6

Matrix : Water

Lab Number : 48209-06

Sample Date : 2/2/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1.3	0.50	ug/L	EPA 8260B	2/6/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Methyl-t-butyl ether (MTBE)	6.7	0.50	ug/L	EPA 8260B	2/6/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	2/6/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	2/6/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	2/6/2006
Toluene - d8 (Surr)	98.2		% Recovery	EPA 8260B	2/6/2006
4-Bromofluorobenzene (Surr)	94.3		% Recovery	EPA 8260B	2/6/2006
Dibromofluoromethane (Surr)	102		% Recovery	EPA 8260B	2/6/2006
1,2-Dichloroethane-d4 (Surr)	96.6		% Recovery	EPA 8260B	2/6/2006

Approved By:  Joel Kiff



Report Number : 48209

Date : 2/8/2006

Project Name : Rotten Robbie Station #40

Project Number : ROB01.001-QM

Sample : MW-8

Matrix : Water

Lab Number : 48209-07

Sample Date : 2/2/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	2/4/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/4/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/4/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	2/4/2006
Methyl-t-butyl ether (MTBE)	1.3	0.50	ug/L	EPA 8260B	2/4/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	2/4/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	2/4/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	2/4/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	2/4/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	2/4/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/4/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	2/4/2006
Toluene - d8 (Surr)	95.0		% Recovery	EPA 8260B	2/4/2006
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	2/4/2006
Dibromofluoromethane (Surr)	98.9		% Recovery	EPA 8260B	2/4/2006
1,2-Dichloroethane-d4 (Surr)	98.1		% Recovery	EPA 8260B	2/4/2006

Approved By: Joel Kiff

Project Name : Rotten Robbie Station #40

Project Number : ROB01.001-QM

Parameter	Spiked Sample	Sample Value	Spike Level	Spiked Sample Value	Duplicate Spiked Sample Value	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Spiked Sample Percent Recov.	Relative Percent Recov.
Benzene	48230-03	<0.50	38.4	38.6	39.3	40.4	ug/L	EPA 8260B	2/4/06	102	104
Toluene	48230-03	<0.50	38.4	38.6	37.5	37.9	ug/L	EPA 8260B	2/4/06	97.6	98.3
Ter-Butanol	48230-03	<5.0	192	193	189	192	ug/L	EPA 8260B	2/4/06	98.6	99.3
Methyl-t-Butyl Ether	48230-03	<0.50	38.4	38.6	42.3	42.8	ug/L	EPA 8260B	2/4/06	110	111
Benzene	48209-07	<0.50	40.0	40.0	39.5	38.6	ug/L	EPA 8260B	2/4/06	98.8	96.6
Toluene	48209-07	<0.50	40.0	40.0	37.5	36.6	ug/L	EPA 8260B	2/4/06	93.8	91.5
Ter-Butanol	48209-07	<5.0	200	200	198	196	ug/L	EPA 8260B	2/4/06	99.2	97.9
Methyl-t-Butyl Ether	48209-07	1.3	40.0	40.0	42.7	40.2	ug/L	EPA 8260B	2/4/06	103	97.2
Benzene	48219-03	<0.50	40.0	40.0	39.4	37.3	ug/L	EPA 8260B	2/6/06	98.6	93.2
Toluene	48219-03	<0.50	40.0	40.0	36.9	35.4	ug/L	EPA 8260B	2/6/06	92.2	88.6
Ter-Butanol	48219-03	<5.0	200	200	191	180	ug/L	EPA 8260B	2/6/06	95.5	90.2
Methyl-t-Butyl Ether	48219-03	<0.50	40.0	40.0	39.0	37.7	ug/L	EPA 8260B	2/6/06	97.4	94.2
Benzene	48208-07	<0.50	40.0	40.0	41.6	38.1	ug/L	EPA 8260B	2/4/06	104	95.2
Toluene	48208-07	<0.50	40.0	40.0	39.7	36.0	ug/L	EPA 8260B	2/4/06	99.4	89.9
Ter-Butanol	48208-07	<5.0	200	200	211	196	ug/L	EPA 8260B	2/4/06	105	98.0
Methyl-t-Butyl Ether	48208-07	<0.50	40.0	40.1	40.1	36.5	ug/L	EPA 8260B	2/4/06	100	91.2
Benzene	48212-08	<0.50	40.0	40.0	43.2	42.3	ug/L	EPA 8260B	2/6/06	108	106
Toluene	48212-08	<0.50	40.0	40.0	43.8	42.8	ug/L	EPA 8260B	2/6/06	109	107

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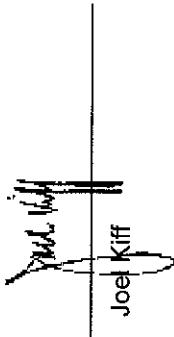
Approved By:

Joe Kiff



Project Name : Rotten Robbie Station #40
Project Number : ROB01.001-QM

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Spiked Sample Percent Recov.	Spiked Sample Percent Recov.	Relative Percent Diff.
Tert-Butanol	48212-08	53	200	200	280	271	ug/L	EPA 8260B	2/6/06	114	109	3.95	70-130 25
Methyl-t-Butyl Ether	48212-08	49	40.0	40.0	107	106	ug/L	EPA 8260B	2/6/06	145	142	1.79	70-130 25
Benzene	48215-09	<0.50	40.0	40.0	43.3	42.0	ug/L	EPA 8260B	2/6/06	108	105	2.92	70-130 25
Toluene	48215-09	<0.50	40.0	40.0	43.9	42.5	ug/L	EPA 8260B	2/6/06	110	106	3.06	70-130 25
Tert-Butanol	48215-09	<5.0	200	200	208	201	ug/L	EPA 8260B	2/6/06	104	100	3.24	70-130 25
Methyl-t-Butyl Ether	48215-09	<0.50	40.0	40.0	41.0	40.7	ug/L	EPA 8260B	2/6/06	102	102	0.719	70-130 25
Benzene	48213-07	<0.50	40.0	40.0	38.9	37.6	ug/L	EPA 8260B	2/6/06	97.4	94.0	3.48	70-130 25
Toluene	48213-07	<0.50	40.0	40.0	39.1	38.3	ug/L	EPA 8260B	2/6/06	97.6	95.7	2.02	70-130 25
Tert-Butanol	48213-07	<5.0	200	200	190	189	ug/L	EPA 8260B	2/6/06	94.8	94.6	0.295	70-130 25
Methyl-t-Butyl Ether	48213-07	<0.50	40.0	40.0	39.7	39.3	ug/L	EPA 8260B	2/6/06	99.3	98.4	0.974	70-130 25



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Approved By: Joel Kiff

QC Report : Laboratory Control Sample (LCS)

Project Name : Rotten Robbie Station #40

Project Number : ROB01.001-QM

Report Number : 48209
Date : 2/8/2006

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov.
Benzene	40.0	ug/L	EPA 8260B	2/4/06	103	70-130
Toluene	40.0	ug/L	EPA 8260B	2/4/06	95.7	70-130
Tert-Butanol	200	ug/L	EPA 8260B	2/4/06	100	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	2/4/06	108	70-130
Benzene	40.0	ug/L	EPA 8260B	2/4/06	91.1	70-130
Toluene	40.0	ug/L	EPA 8260B	2/4/06	90.6	70-130
Tert-Butanol	200	ug/L	EPA 8260B	2/4/06	95.1	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	2/4/06	98.2	70-130
Benzene	40.0	ug/L	EPA 8260B	2/6/06	95.1	70-130
Toluene	40.0	ug/L	EPA 8260B	2/6/06	93.5	70-130
Tert-Butanol	200	ug/L	EPA 8260B	2/6/06	89.8	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	2/6/06	97.8	70-130
Benzene	40.0	ug/L	EPA 8260B	2/4/06	95.4	70-130
Toluene	40.0	ug/L	EPA 8260B	2/4/06	94.6	70-130
Tert-Butanol	200	ug/L	EPA 8260B	2/4/06	103	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	2/4/06	93.9	70-130
Benzene	40.0	ug/L	EPA 8260B	2/6/06	108	70-130

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:

Joe Kiff



QC Report : Laboratory Control Sample (LCS)

Project Name : Rotten Robbie Station #40

Project Number : ROB01.001-QM

Report Number : 48209
Date : 2/8/2006

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Toluene	40.0	ug/L	EPA 8260B	2/6/06	110	70-130
Tert-Butanol	200	ug/L	EPA 8260B	2/6/06	104	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	2/6/06	100	70-130
Benzene	40.0	ug/L	EPA 8260B	2/6/06	107	70-130
Toluene	40.0	ug/L	EPA 8260B	2/6/06	109	70-130
Tert-Butanol	200	ug/L	EPA 8260B	2/6/06	98.7	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	2/6/06	100	70-130
Benzene	40.0	ug/L	EPA 8260B	2/6/06	93.8	70-130
Toluene	40.0	ug/L	EPA 8260B	2/6/06	95.5	70-130
Tert-Butanol	200	ug/L	EPA 8260B	2/6/06	91.6	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	2/6/06	99.2	70-130

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Approved By:

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